The radio data modem CDA 70 is communication device for wireless data transmission. It is designed for creating large data networks in vast geographical areas mainly in industrial and mobile applications. The modem can be used for data collection and transmission in great number of technological processes.

CDA 70 is also advantageous alternative for backing up of important points in cable networks.

.: More than 50 communication protocols

CDA 70 supports more than 50 communication protocols for industrial controlling systems, metering devices and other equipment (MODBUS, S-BUS, AT modem, MBUS etc.) – it is possible to create or add protocol on request of customer.

.: User interface

CDA 70 have 5 communication ports where every interface can communicate by different speed and different communication protocol.

1. RS-232, optional MBUS.
2. RS-232, optional RS-485
3. RS-232
4. ETHERNET 10/100
5. CIO – five signals that is possible to configure as analogue inputs, binary inputs or binary outputs.

.: Network features

Low operating costs with CDA 70 – no matter the data volume. Every radio data modem CDA 70 can work as an end point and relay station at the same time and data packet transmission by Store and Forward method. Communication among random network points and fixed or automatic data packets routing in network – modems developing routing tables at the base of network traffic information. Network responds automatically while failure in transmission occurs or a new station is added. CDA 70 can be integrated into GPRS networks, Internet etc.

PRO4 WIRELESS

.:: CDA 70

.: frequency
143 –1 74 MHz (version CDA 70V)
403 – 470 MHz (version CDA 70U)
.: adjustment of working frequency, programmable (step 1 Hz)

.: adjustment of channel spacing
12,5 • 25 kHz (version CDA 70V)
12,5 • 20 • 25 kHz (version CDA 70U)

.: output power (version CDA 70V)
0,5 • 1 • 2 • 3 W
.: output power (version CDA 70U)
0,01 • 0,05 • 0,1 • 0,25 • 0,5 • 1 • 2 • 3 • 4 • 5 W

.: receiver sensitivity <-111 dBm
(12 dB SINAD) for channel 25/20 kHz
<-117 dBm
(12 dB SINAD) for channel 12,5 kHz

.: interface RS232, RS485, MBUS, ETHERNET 10/100, I/O (CIO)

.: reception/transmission switching time
< 4 msec

.: max communication speed
21,7 kbit/sec for channel spacing 20 a 25 kHz
10,8 kbit/sec for channel spacing 12,5 kHz

.: on-line packet data transmission
.: high level of data protection & compression
.: modulation FFSK, GMSK
.: temp. storage -40 °C to +85 °C
.: temp. operation -25 °C to +55 °C
.: comply standards
EN 300 113-1: V1.5.1, EN 300 113-2: V1.2.1
EN 301 489-5: V1.3.1, EN 60 950-1:2001

.: current reception <200 mA
.: current transmission 1 W <900 mA
.: current transmission 5 W <1500 mA
.: antennal connector BNC – 50 Ohm
.: weight 500g
.: dimensions 43 × 104 × 98 mm
DIN ledge 35 mm

PRO4 WIRELESS

.: Diagnostics and service

Full remote administration and configuration from any point of network with CDA 70. Diagnostics on VF channel and communication interfaces – detailed records stored for last 4 days. Event log (8000 records, cca 300 types of events) and software configuration of all CDA 70 modem parameters, radio channel signal level measuring, inner temperature and supply voltage measuring.

.: Application examples

Telemetry / SCADA

Monitoring and dispatcher´s control of large technology in waterworks engineering, energetics, heating service, oil and gas industry and transport.

Industrial automation

Interconnection of industrial control systems and information systems, remote inputs/outputs (I/O).
Data collection from measuring devices
Heating meters, electrometers, water meters, gas meters and meteorological sensors.

Remote control and monitoring

Information boards (road signs, parking boards etc.), street-light, car park, camera handling and public lights.

Mobile and transactional networks

Rail transport and road vehicles, public transport, boats, financial service terminals and online lottery terminals.